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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/620,369	07/17/2003	Ludovic Fleury	Q76520	9715
23373 7	590 09/29/2005		EXAMINER	
SUGHRUE MION, PLLC			WONG, TINA MEI SENG	
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800			ART UNIT	PAPER NUMBER
	N, DC 20037		2874	

DATE MAILED: 09/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	<u> </u>
	10/620,369	FLEURY ET AL.	
Office Action Summary	Examiner	Art Unit	·
	Tina M. Wong	2874	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet w	vith the correspondence addre	ss
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN .136(a). In no event, however, may a d will apply and will expire SIX (6) MO tte, cause the application to become A	ICATION. I reply be timely filed INTHS from the mailing date of this commissandoned (35 U.S.C. § 133).	•
Status			
1) Responsive to communication(s) filed on 11 2	August 2005.		
	is action is non-final.		
3) Since this application is in condition for allows	ance except for formal ma	tters, prosecution as to the m	erits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 3-21 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 3-21 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers	·		
9) The specification is objected to by the Examin	ner.		
10)⊠ The drawing(s) filed on <u>17 July 2003</u> is/are: a		cted to by the Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeya	ince. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corre	•	- · · · · · · · · · · · · · · · · · · ·	
11) The oath or declaration is objected to by the E	Examiner. Note the attache	ed Office Action or form PTO-	152.
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. nts have been received in a ority documents have been au (PCT Rule 17.2(a)).	Application No n received in this National Sta	age
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-15	2)

DETAILED ACTION

This Office action is responsive to applicant's communication submitted on 11 August 2005.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,456,773 to Keys in view of U.S. Patent 5,673,354 to Akasaka et al. Keys discloses a module including a structure (300) with a plurality of submodules (325, 350) which are in series and separable from the structure. Furthermore, Keys discloses the submodules to be interconnected by more than one connection and each submodule includes a support/spool to which at least one compensation fiber (416, 418) is fixed. (Figures 3 and 4)

Keys fails to specifically disclose the interconnected connections to be identifiable to the naked eye without optical measurements. However, it can be observed the boot connectors (427, 435) and adapters (410, 412) are placed on the exterior of the housing. Since the connections can be seen on the exterior of the structure and one of ordinary skill in the art would recognize the boot connectors and adapters as interconnecting pieces and furthermore, it would be advantageous for the connection pieces to be identifiable for ease and convenience, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to be able to identify the interconnected connections.

Keys also fails to disclose different compensation fiber to be used in the submodules. However, Keys discloses any type of compensation fiber can be coupled to the communication system. Furthermore, Keys discloses the appropriate fiber should be used in order to gain the result intended. (Column 4) Keys' disclosure is more particularly drawn to the module itself than the optical fibers. Since Applicant does not specifically state or disclose an advantage to using the different fibers and Applicant further discloses the use of the same compensating fibers, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to have different kinds of compensating fibers in the submodules since Keys teaches the use of the appropriate fiber and Applicant fails to specifically disclose the use of different fibers to solve a stated problem or is for a particular purpose.

Keys further fails to disclose the dispersion compensation ratio to be between 0.9 to 1.1. However, Akasaka et al discloses the perfect dispersion compensation ratio of a wavelength from 1530 nm to 1570 nm (spectral band C) to be between 0.75 and 1.25. Since the ratio disclosed by Akasaka et al is a known range and Keys is silent on the dispersion ratio, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to have a dispersion compensation ration between 0.9 and 1.1.

Claims 15-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 6,456,773 to Keys.

Keys discloses a main fiber line (425), a compensation module with at last two submodules connected in series, each with a dispersion compensation fiber, transmitting information over the main fiber line, and the ability to replace the second module with a third module, where the second and third submodules are removable from the module and

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exchangeable with each other. But Keys fails to specifically disclose the dispersion compensation fibers to be compensating for chromatic dispersion.

However, Keys does disclose that depending on the length of the dispersion compensated fiber; the amount of chromatic dispersion is affected. Since Applicant discloses a first length, a second length and a third length and Keys discloses many different lengths or spans can be used, the dispersion compensated fibers do compensate chromatic dispersion.

Keys further fails to specifically disclose one or more connections identifiable to the naked eye without optical measurements. However, it can be observed the boot connectors and adapters are placed on the exterior of the housing. Since the connections can be seen on the exterior of the structure and one of ordinary skill in the art would recognize the boot connectors and adapters as interconnecting pieces and furthermore, it would be advantageous for the connection pieces to be identifiable for ease and convenience, it would have been obvious at the time the invention was made to a person having ordinary skill in the art to be able to identify the interconnected connections.

Response to Arguments

Applicant's arguments filed 11 August 2005 have been fully considered but they are not persuasive.

Applicant agues Keys is silent with respect to modules having submodules to provide chromatic dispersion in an optical fiber line over multiple bands. However, the Examiner disagrees. Applicant states that Keys addresses the use of optical fiber with different lengths. Keys further states that the amount of chromatic dispersion that is compensated depends on the length of the optical fiber. Keys further discloses a variety of different lengths of optical fibers

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can be placed in the different spools of the submodules. Therefore, Keys does disclose the submodules to provide chromatic dispersions operating over different bands, depending on the length of the optical fibers.

Applicant also argues Keys does not address the device to be easily modified to operate in different bands. However, Keys discloses a variety of optical fibers to be used. Keys further does not limit the type of fibers. Furthermore, it is desirable for the submodules to be able to be upgraded or exchanged in order to reduce cost. Keys does disclose the different submodules and spools that can be removed and exchanged from the module in order to obtain the desired chromatic dispersion.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tina M. Wong whose telephone number is (571) 272-2352. The examiner can normally be reached on Monday-Friday 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jush Wong TMW

> / John D. Lee Primary Examiner